



Sequences for the PCR Primers Used to Amplify SSR Loci in Soybean

These primers were developed by Perry Cregan (Soybean and Alfalfa Research Laboratory, USDA-ARS, Beltsville, MD) with extramural financial support from the United Soybean Board and the able technical assistance of Edward Fickus, Sarah Hyatt, Charles Quigley, Patrick Elia, Susan Fogarty, Jason Kenworthy, and Chris Lee. Any publications resulting from their use should reference the paper (Crop Science 1998 submitted) where they were first described.

An Integrated Genetic Linkage Map of the Soybean

P. B. Cregan, T. Jarvik, A. L. Bush, R. C. Shoemaker, K. G. Lark, A. L. Kahler, N. Kaya, T. T. VanToai, D. G. Lohnes, J. Chung and J. E. Specht

- P. B. Cregan, USDA-ARS, Soybean and Alfalfa Research Lab., Beltsville, MD 20705
- T. Jarvik and K. G. Lark, Dept. of Biology, Univ. of Utah, Salt Lake City, UT 84112
- A. L. Bush and R. C. Shoemaker, USDA-ARS-CICG, Dept. of Agronomy, Iowa State Univ., Ames, IA 50011
- A. L. Kahler, BioGenetic Services Inc., 2308 6th St. E., P.O. Box 710, Brookings, SD 57006
- N. Kaya, Yuzuncu Yil University, College of Agriculture, 65080-Van, Turkey
- T. T. VanToai, USDA-ARS, Soil Drainage Unit, 590 Woody Hayes Drive, Columbus, OH 43210
- D. G. Lohnes, Dept. of Horticulture and Crop Science, The Ohio State Univ. and the Ohio Agric. Res. and Dev. Center, Wooster, OH 44691
- J. Chung and J. E. Specht, Dept. of Agronomy, Univ. Nebraska, Lincoln, NE 68583-0915

PCR conditions for using these primers can be found [here](#).

You can browse through the entire list or use these links to go to a particular section

[Satt](#) [Sat](#) [Sct](#) [Other types](#)

Click on an entry to view the primer sequences

[Satt001](#) [Satt002](#) [Satt005](#) [Satt006](#) [Satt009](#) [Satt012](#) [Satt014](#) [Satt020](#) [Satt022](#) [Satt030](#) [Satt031](#)
[Satt032](#) [Satt038](#) [Satt041](#) [Satt042](#) [Satt045](#) [Satt046](#) [Satt049](#) [Satt050](#) [Satt052](#) [Satt055](#) [Satt063](#)
[Satt066](#) [Satt070](#) [Satt071](#) [Satt072](#) [Satt073](#) [Satt076](#) [Satt077](#) [Satt079](#) [Satt080](#) [Satt082](#) [Satt083](#)
[Satt089](#) [Satt094](#) [Satt095](#) [Satt100](#) [Satt102](#) [Satt114](#) [Satt115](#) [Satt117](#) [Satt119](#) [Satt122](#) [Satt123](#)
[Satt124](#) [Satt125](#) [Satt126](#) [Satt127](#) [Satt128](#) [Satt129](#) [Satt130](#) [Satt131](#) [Satt132](#) [Satt133](#) [Satt134](#)
[Satt135](#) [Satt136](#) [Satt137](#) [Satt138](#) [Satt139](#) [Satt141](#) [Satt142](#) [Satt143](#) [Satt144](#) [Satt145](#) [Satt146](#)
[Satt147](#) [Satt148](#) [Satt149](#) [Satt150](#) [Satt151](#) [Satt152](#) [Satt153](#) [Satt154](#) [Satt155](#) [Satt156](#) [Satt157](#)
[Satt158](#) [Satt159](#) [Satt160](#) [Satt162](#) [Satt163](#) [Satt164](#) [Satt165](#) [Satt166](#) [Satt167](#) [Satt168](#) [Satt169](#)
[Satt170](#) [Satt172](#) [Satt173](#) [Satt174](#) [Satt175](#) [Satt177](#) [Satt178](#) [Satt179](#) [Satt180](#) [Satt181](#) [Satt182](#)
[Satt183](#) [Satt184](#) [Satt185](#) [Satt186](#) [Satt187](#) [Satt188](#) [Satt189](#) [Satt190](#) [Satt191](#) [Satt192](#) [Satt193](#)

RECEIVED
DEC 19 2001
TECH CENTER 1600/2000
RECEIVED
DEC 21 2001
TECH CENTER 1600/2000

Satt194 Satt195 Satt196 Satt197 Satt198 Satt199 Satt200 Satt201 Satt202 Satt203 Satt204
Satt206 Satt207 Satt208 Satt209 Satt210 Satt211 Satt212 Satt213 Satt215 Satt216 Satt217
Satt218 Satt220 Satt221 Satt222 Satt225 Satt226 Satt227 Satt228 Satt229 Satt230 Satt231
Satt232 Satt233 Satt234 Satt235 Satt236 Satt237 Satt238 Satt239 Satt240 Satt241 Satt242
Satt243 Satt244 Satt245 Satt247 Satt248 Satt249 Satt250 Satt251 Satt252 Satt253 Satt254
Satt255 Satt256 Satt257 Satt258 Satt259 Satt260 Satt262 Satt263 Satt264 Satt266 Satt267
Satt268 Satt269 Satt270 Satt271 Satt272 Satt273 Satt274 Satt275 Satt276 Satt277 Satt278
Satt279 Satt280 Satt281 Satt282 Satt283 Satt284 Satt285 Satt286 Satt287 Satt288 Satt289
Satt290 Satt291 Satt292 Satt293 Satt294 Satt295 Satt296 Satt298 Satt300 Satt301 Satt302
Satt303 Satt304 Satt305 Satt306 Satt307 Satt308 Satt309 Satt310 Satt311 Satt312 Satt313
Satt314 Satt315 Satt316 Satt317 Satt318 Satt319 Satt320 Satt321 Satt322 Satt323 Satt324
Satt325 Satt326 Satt327 Satt328 Satt329 Satt330 Satt331 Satt332 Satt333 Satt334 Satt335
Satt336 Satt337 Satt338 Satt339 Satt340 Satt341 Satt342 Satt343 Satt345 Satt346 Satt347
Satt348 Satt349 Satt350 Satt352 Satt353 Satt354 Satt355 Satt356 Satt357 Satt358 Satt359
Satt361 Satt362 Satt363 Satt364 Satt365 Satt367 Satt368 Satt369 Satt370 Satt371 Satt372
Satt373 Satt374 Satt375 Satt376 Satt377 Satt378 Satt380 Satt381 Satt382 Satt383 Satt384
Satt385 Satt386 Satt387 Satt388 Satt389 Satt390 Satt393 Satt394 Satt395 Satt396 Satt397
Satt398 Satt399 Satt400 Satt402 Satt403 Satt404 Satt405 Satt406 Satt407 Satt408 Satt409
Satt410 Satt411 Satt412 Satt413 Satt414 Satt415 Satt416 Satt417 Satt418 Satt419 Satt420
Satt421 Satt422 Satt423 Satt424 Satt425 Satt426 Satt427 Satt428 Satt429 Satt430 Satt431
Satt432 Satt433 Satt434 Satt435 Satt436 Satt437 Satt439 Satt440 Satt441 Satt442 Satt443
Satt444 Satt445 Satt446 Satt447 Satt448 Satt449 Satt450 Satt451 Satt452 Satt453 Satt454
Satt455 Satt456 Satt457 Satt458 Satt459 Satt460 Satt461 Satt462 Satt463 Satt464 Satt466
Satt467 Satt468 Satt469 Satt470 Satt471 Satt472 Satt473 Satt474 Satt475 Satt476 Satt477
Satt478 Satt479 Satt480 Satt481 Satt482 Satt483 Satt484 Satt485 Satt486 Satt487 Satt488
Satt489 Satt490 Satt491 Satt492 Satt493 Satt494 Satt495 Satt496 Satt497 Satt498 Satt499
Satt500 Satt501 Satt502 Satt503 Satt504 Satt505 Satt506 Satt507 Satt508 Satt509 Satt510
Satt511 Satt512 Satt513 Satt514 Satt515 Satt516 Satt517 Satt518 Satt519 Satt520 Satt521
Satt522 Satt523 Satt524 Satt525 Satt526 Satt527 Satt528 Satt529 Satt530 Satt531 Satt532
Satt533 Satt534 Satt536 Satt537 Satt538 Satt539 Satt540 Satt541 Satt542 Satt543 Satt544

Satt545 Satt546 Satt547 Satt548 Satt549 Satt550 Satt551 Satt552 Satt553 Satt554 Satt555
Satt556 Satt557 Satt558 Satt559 Satt560 Satt561 Satt562 Satt563 Satt564 Satt565 Satt566
Satt567 Satt568 Satt569 Satt570 Satt571 Satt572 Satt573 Satt574 Satt575 Satt576 Satt577
Satt578 Satt579 Satt580 Satt581 Satt582 Satt583 Satt584 Satt585 Satt586 Satt587 Satt588
Satt589 Satt590 Satt591 Satt592 Satt593 Satt594 Satt595 Satt596 Satt597 Satt598 Satt599
Satt600 Satt601 Satt602 Satt603 Satt604 Satt605

Sat_001 Sat_003 Sat_009 Sat_020 Sat_022 Sat_033 Sat_036 Sat_038 Sat_039 Sat_040
Sat_042 Sat_043 Sat_044 Sat_062 Sat_064 Sat_069 Sat_071 Sat_074 Sat_076 Sat_077
Sat_083 Sat_084 Sat_085 Sat_086 Sat_087 Sat_088 Sat_089 Sat_090 Sat_091 Sat_092
Sat_093 Sat_094 Sat_095 Sat_096 Sat_097 Sat_099 Sat_103 Sat_104 Sat_105 Sat_106
Sat_107 Sat_108 Sat_109 Sat_110 Sat_111 Sat_112 Sat_113 Sat_114 Sat_115 Sat_116
Sat_117 Sat_118 Sat_119 Sat_120 Sat_121 Sat_122 Sat_123 Sat_124 Sat_125 Sat_126
Sat_127 Sat_128 Sat_129 Sat_130 Sat_131 Sat_132 Sat_133 Sat_134 Sat_135 Sat_136

Sct_001 Sct_010 Sct_026 Sct_028 Sct_033 Sct_034 Sct_046 Sct_064 Sct_065 Sct_067
Sct_094 Sct_137 Sct_147 Sct_186 Sct_187 Sct_188 Sct_189

GMABAB GMENOD2B GMGLPSI2 GMRUBP SOYHSP176 SOYGPATR SOYLBC SOYN
SOYPRP1 GMSC514 Scaa001 Scaa003

PCR Reagents for Soybean SSR Amplification

1. 30 ng genomic soybean DNA
2. Buffer:
 - o 50 mM KCl
 - o 10 mM Tris-HCl (pH 9.0 at 25° C)
 - o 0.1 % Triton X-100
3. 1.5 mM MgCl₂
4. 0.15 mM for each of the NTPs
5. 1 unit Taq DNA Polymerase

Thermocycling Profile for Amplification of Soybean SSRs

1. 2 min at 95° C
2. 33 cycles of
 - o Denaturation: 92° C
 - o Annealing: 47° C
 - For better, but still specific amplification, 46° C will generally work quite well
 - o Extension: 68° C

Use equal times for denaturation, annealing, and extension. Time depends on PCR machine, volume of reaction, etc.